

U.S. Serial No. 08/945,705
Reply to Office Action of: June 24, 2003
Family Number: P1995J032

Page 9 of 12

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A lubricating oil composition capable of maintaining its friction reducing properties for a prolonged time under conditions of use in an engine comprising a lubricating base oil and additives consisting essentially of:

(a) sulfoxymolybdenum dithiocarbamate containing a hydrocarbon group having 8 to 18 atoms,

(b) a zinc dialkyldithiophosphate component selected from the group consisting of:

(i) zinc dialkyldithiophosphate containing primary alkyl groups having 1 to 18 carbon atoms,

(ii) a mixture of zinc dialkyldithiophosphate containing primary alkyl groups having 1 to 18 carbon atoms and zinc dialkyldithiophosphate containing secondary alkyl groups having 3 to 18 carbon atoms,

(iii) zinc dialkyldithiophosphate containing a primary alkyl group containing 1 to 18 carbon atoms, and

(iv) mixtures thereof,

(c) an alkylsalicylate component comprising a mixture from 0 to 50 % by weight of magnesium alkylsalicylate, the balance of and calcium alkylsalicylate, wherein the magnesium alkylsalicylate does not exceed 50% by weight of said alkylsalicylate component,

U.S. Serial No. 08/945,705
Reply to Office Action of: June 24, 2003
Family Number: P1995J032

Page 10 of 12

wherein the amount of molybdenum derived from the sulfoxymolybdenum dithiocarbamate being from 200 to 1000 ppm (weight basis) of the total weight of the composition,

the amount of phosphorous derived from the zinc dialkyldithiophosphate component being from 0.04 to 0.15% by weight of the total weight of the composition and

the total amount of the alkylsalicylate component being from 0.5 to 10% by weight of the total weight of the composition.

2. (Currently Amended) A lubricating oil composition capable of maintaining its friction reducing properties for a prolonged time under conditions of use in an engine comprising a lubricating base oil and ~~additives consisting essentially of:~~

(a) sulfoxymolybdenum dithiocarbamate containing a hydrocarbon group having 8 to 18 atoms,

(b) a zinc dialkyldithiophosphate component selected from the group consisting of:

(i) zinc dialkyldithiophosphate containing primary alkyl groups having 1 to 18 carbon atoms,

U.S. Serial No. 08/945,705
Reply to Office Action of: June 24, 2003
Family Number: P1995J032

Page 11 of 12

(ii) a mixture of zinc dialkyldithiophosphate containing primary alkyl groups having 1 to 18 carbon atoms and zinc dialkyldithiophosphate containing secondary alkyl groups having 3 to 18 carbon atoms,

(iii) zinc dialkyldithiophosphate containing a primary alkyl group containing 1 to 18 carbon atoms, and

(iv) mixtures thereof,

(c) an alkylsalicylate component comprising a mixture from 0 to 50% by weight of magnesium alkylsalicylate, the balance of and calcium alkylsalicylate, wherein the magnesium alkylsalicylate does not exceed 50% by weight of said alkylsalicylate component.

(d) succinimide containing boron

wherein the amount of molybdenum derived from the sulfoxymolybdenum dithiocarbamate being from 200 to 1000 ppm (weight basis) of the total weight of the composition,

the amount of phosphorous derived from the zinc dialkyldithiophosphate component being from 0.04 to 0.15% by weight of the total weight of the composition and

the total amount of the alkylsalicylate component being from 0.5 to 10% by weight of the total weight of the composition.

U.S. Serial No. 08/945,705
Reply to Office Action of: June 24, 2003
Family Number: P1995J032

Page 12 of 12

the amount of boron derived from the succinimide containing boron being from 0.005 to 0.06% by weight of the total weight of the composition, and the boron/nitrogen ratio regarding the number of atoms contained in the succinimide contained boron is from 0.05 to 1.5.

3. (Original) The lubricating oil composition of claim 1 or 2 wherein the lubricating base oil is a hydrocracked oil and/or a wax isomerized oil containing 3% by weight or less aromatics, a sulfur content of 50 ppm or less and a nitrogen content of 50 ppm or less.

4. (Original) The lubricating oil composition of claim 1 or 2 wherein the primary or secondary alkyl group of the zinc dialkyldithiophosphate contains 3 to 12 carbon atoms.

5. (Original) The lubricating oil composition of claim 1 or 2 having a total base number of 3 to 10.